

What is claimed is:

1. A refinish composition comprising an hydroxyl-functional acrylic
polymer, wherein the acrylic polymer has a number average molecular weight of
at least about 5000 and is polymerized using at least about 45% by weight of a
5 cycloaliphatic monomer, based on the total weight of monomers polymerized,
and further wherein the refinish composition is a refinish clearcoat composition.

2. A refinish composition according to claim 1, wherein the hydroxyl-
functional acrylic polymer is at least about 2% by weight, based on nonvolatile
10 binder material.

3. A refinish composition according to claim 1, wherein the hydroxyl-
functional acrylic polymer is at least about 5% by weight, based on nonvolatile
binder material.

4. A refinish composition according to claim 1, further comprising a
15 second hydroxyl-functional acrylic polymer.

5. A refinish composition according to claim 1, wherein the acrylic
20 polymer has a weight average molecular weight of at least about 17,000.

6. A refinish composition according to claim 1, wherein the cycloaliphatic monomer comprises a member selected from the group consisting of cyclohexyl acrylate, cyclohexyl methacrylate, isobornyl acrylate, isobornyl methacrylate, and combinations thereof.

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7. A refinish composition according to claim 1, wherein the cycloaliphatic monomer is at least about 60% by weight, based on the total weight of monomers polymerized.

8. A refinish composition according to claim 1, wherein the cycloaliphatic monomer is up to about 85% by weight, based on the total weight of monomers polymerized.

9. A refinish composition according to claim 1, wherein the acrylic polymer has an hydroxyl number of from about 45 mg KOH/g polymer to about 75 mg KOH/g polymer.

10. A refinish composition according to claim 1, wherein the acrylic polymer is polymerized from monomers comprising from about 1% to about 25% by weight of a combination of styrene, n-butyl methacrylate, and n-butyl acrylate, based on the total weight of monomers polymerized.

11. A refinish composition according to claim 1, wherein an about 55% by weight solution of the acrylic polymer in n-butyl acetate has a viscosity less than or equal to about 10 Stokes at 25°C.

5 12. A refinish composition according to claim 1, wherein an about 55% by weight solution of the acrylic polymer in n-butyl acetate has a viscosity less than or equal to about 8.8 Stokes at 25°C.

10 13. A refinish multi-component coating composition, comprising
(a) a first component comprising an hydroxyl-functional acrylic polymer that has a number average molecular weight of at least about 5000 and is polymerized using at least about 45% by weight of a cycloaliphatic monomer, based on the total weight of monomers polymerized the hydroxyl-functional acrylic polymer and

15 (b) a second component comprising a curing agent;
wherein the refinish coating composition is a clearcoat composition.

20 14. A refinish multi-component coating composition according to claim 13, wherein the curing agent is reactive with the hydroxyl-functional acrylic polymer.

15. A refinish multi-component coating composition according to claim 13, wherein the first component comprises a further polymer or resin reactive with the curing agent.

5 16. A method of refinishing a substrate, comprising steps of:

(a) applying to a desired area of the substrate a layer of a refinish basecoat composition;

(b) allowing the applied layer of basecoat composition to dry; and

(c) applying over the layer of basecoat composition a clearcoat composition comprising an hydroxyl-functional acrylic polymer, wherein the acrylic polymer has a number average molecular weight of at least about 5000 and is polymerized using at least about 45% by weight of a cycloaliphatic monomer, based on the total weight of monomers polymerized.

10 17. A method according to claim 16, wherein the clearcoat composition is thermosetting.

15 18. A method according to claim 16, wherein the clearcoat composition comprises at least one material reactive with the hydroxyl-functional acrylic polymer.

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19. A method according to claim 18, wherein the material reactive with the hydroxyl-functional acrylic polymer comprises the isocyanurate of hexamethylene diisocyanate.

5 20. A method according to claim 16, wherein the substrate is an automotive vehicle or a component of an automotive vehicle.

21. A refinished substrate prepared according to the method of claim 16.

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